

[LP 503]

AUGUST 2019

Sub.Code :5054

**M.B.B.S. DEGREE EXAMINATION  
FIRST YEAR  
PAPER IV – PHYSIOLOGY INCLUDING BIO-PHYSICS – II**

*Q.P. Code: 525054*

**Time: Three hours**

**Maximum : 50 Marks**

**Answer All Questions**

**I. Essay:**

**(1 x 10 = 10)**

1. Describe the optic pathway from the photoreceptors to the visual cortex. Add a note on visual field defects produced by lesions at various levels of the pathway.

**II. Write notes on:**

**(5 x 4 = 20)**

1. Brown – sequard syndrome.
2. Histotoxic hypoxia.
3. Physiology of fetal circulation before and after birth.
4. Special features of coronary circulation.
5. Caisson's disease.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Implicit memory.
2. Stages of sleep cycle.
3. Denervation hypersensitivity.
4. Determinants of force of contraction of heart.
5. Bohr effect.
6. Jugular venous pulse.
7. Endogenous opioids.
8. Mouth to mouth respiration.
9. Heart block.
10. Respiratory distress syndrome of new born.

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